

**COMBINED DECLARATION AND POWER OF ATTORNEY FOR  
UTILITY PATENT APPLICATION (Includes PCT)**

**Attorney Docket No.  
APV31642**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**CASTINGS OF METALLIC ALLOYS WITH IMPROVED SURFACE QUALITY, STRUCTURAL INTEGRITY AND  
MECHANICAL PROPERTIES FABRICATED IN REFRACOTRY METALS AND REFRACOTRY METAL CARBIDES  
COATED GRAPHITE MOLDS UNDER VACUUM**

the specification of which (check one)

is attached hereto.

was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_ and was amended on \_\_\_\_\_. (if applicable)

was filed as PCT International Application No. \_\_\_\_ on \_\_\_, and was filed in the U.S. National Stage on \_\_\_\_ as U.S. Patent Application No. \_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I do not know and do not believe the claimed invention was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to this application.

I hereby claim foreign priority benefits under Title 35, United States Code §119 and/or §365(a)(b) of any foreign application(s) and United States provisional applications for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application(s) on which priority is claimed:

Prior Foreign and U.S. Provisional Application(s)			Priority Claimed	
(Number)	(Country)	Day/Month/Year Filed	[ ] Yes	[ ] No

I hereby claim the benefit under Title 35, United States Code, §120 and/or §365(c) of any United States application(s) or PCT international application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112:

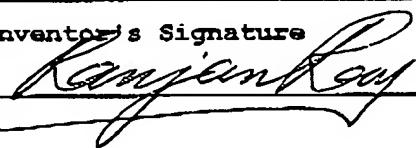
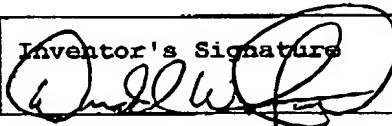
Application Serial No.	Filing Date	Status (patented, pending, abandoned)
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Application Serial No.	Filing Date	Status (patented, pending, abandoned)
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I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith; Stevens, Davis, Miller & Mosher, L.L.P.; Anthony P. Vanturino, Reg. No. 31,674; James E. Ledbetter, Reg. No. 28,732; and Thomas P. Pavalko, Reg. No. 31,689; Peter N. Lalos, Reg. No. 19,789. Direct all telephone calls to telephone no. 202-785-0100 and faxes to 202-408-5200.

Address all correspondence to 1615 L Street, N.W., Suite 850, Washington, D.C. 20036.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole, First Inventor Ranjan RAY	Inventor's Signature 	Date 7/21/03
Residence: Phoenix, Arizona 85022		Citizenship US
Post Office Address: 1256 East Voltaire Avenue Phoenix, Arizona 85022		
Full Name of Second, Joint Inventor Donald W. SCOTT	Inventor's Signature 	Date 7/21/03
Residence: Peoria, Arizona 85381		Citizenship US
Post Office Address: 8772 West Maui Lane Peoria, Arizona 85381		

# PATENTS ONLY

## *Tab settings* ➔ ➔ ➔ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): <b>Ranjan RAY</b> Donald W. SCOTT		2. Name and address of receiving party(ies):  Name: <b>Santoku America, Inc.</b>	
Additional names(s) of conveying party(ies)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____			
Execution Date: <u>July 21, 2003 and July 22, 2003</u>		Street Address: _____  City: <u>Tolleson</u> State: <u>AZ</u> ZIP: <u>85353</u>	
Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
4. Application number(s) or patent numbers(s):  If this document is being filed together with a new application, the execution date of the application is: <u>July 23, 2003</u>			
A. Patent Application No.(s)		B. Patent No.(s)	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed:  Name: <u>Anthony P. Venturino</u>  Internal Address: _____  <u>STEVENS, DAVIS, MILLER &amp; MOSHER, LLP</u>		6. Total number of applications and patents involved: <u>1</u>	
Street Address: <u>1615 L Street N.W., Suite 850</u>		7. Total fee (37 CFR 3.41):.....\$ <u>40.00</u>	
City: <u>Washington</u> State: <u>DC</u> ZIP: <u>20036</u>		<input checked="" type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account <input type="checkbox"/> Authorized to be charged to deposit account	
8. Deposit account number:  <u>19-4375</u>			
(Attach duplicate copy of this page if paying by deposit account)			

**DO NOT USE THIS SPACE**

### **9 Statement and signature**

*[Signature]*  
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Anthony P. Venturino

July 23, 2003

**Name of Person Signing**

Signature

Date

Total number of pages including cover sheet, attachments, and document:

ASSIGNMENT OF PATENT APPLICATION

WHEREAS I (We), Ranjan RAY, of 1256 East Voltaire Ave., Phoenix, Arizona 85022 and Donald W. SCOTT, of 8772 West Maui Lane, Peoria, Arizona 85381, have made a certain new and useful invention as set forth in an application for United States Letters Patent for an invention entitled CASTINGS OF METALLIC ALLOYS WITH IMPROVED SURFACE QUALITY, STRUCTURAL INTEGRITY AND MECHANICAL PROPERTIES FABRICATED IN REFRactory METALS AND REFRactory METAL CARBIDES COATED GRAPHITE MOLDS UNDER VACUUM, concurrently executed herewith;

AND WHEREAS SANTOKU AMERICA, INC., of 8220 West Harrison Street, Tolleson, Arizona 85353, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States which may be obtained therefor;

NOW, THEREFORE, for \$10.00 and other good and valuable consideration in hand, receipt of which is hereby acknowledged, I (We) do hereby sell, assign, transfer and set over unto SANTOKU AMERICA, INC., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

I (We) request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said SANTOKU AMERICA, INC., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby;

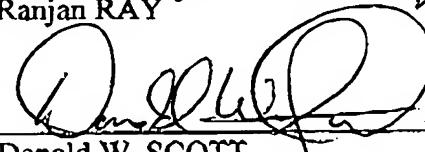
I (We) hereby covenant that I have full rights to convey the entire interest herein assigned and have not executed, and will not execute, any agreement in conflict herewith, and I also agree to execute all papers in connection with the application and any continuing, divisional, continuation-in-part, reissue or re-examination applications thereof and in connection with any interference which may be declared involving this application or any continuing or divisional application thereof;

AND I (We) hereby grant the firm of STEVENS, DAVIS, MILLER & MOSHER, L.L.P.  
the power to insert on this assignment any further identification which may be necessary or  
desirable to comply with the rules of the United States Patent and Trademark Office for  
recording of this assignment.

7/21/03  
Date

(1)   
Ranjan RAY

7/21/03  
Date

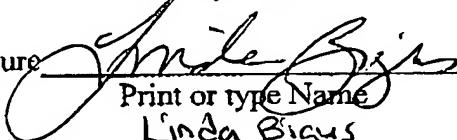
(2)   
Donald W. SCOTT

WITNESS:

(1) 7/22/03  
Date

Signature   
Print or type Name  
MARY W. SMART

(2) 7/22/03  
Date

Signature   
Print or type Name  
Linda Biggs